



CORNET SWITCHING SYSTEMS

Intelligent VDO[®] Quattro 2000

MPEG-2, MPEG-4 & H.264 Standard Definition
Video/Audio Encoder/Decoder



The iVDO Quattro 2000 is an excellent choice for those looking for maximum encoding/decoding flexibility in a single streamline (1U) chassis. This multi-channel encoder/decoder offers users four independently configurable encoders or decoders. The iVDO Quattro 2000 handles real-time Standard Definition MPEG-4 and H.264 streams as well as MPEG-2 for those requiring connectivity to legacy systems. The unit also offers AAC and MPEG-I Layer 2 audio encoding/decoding.

With the iVDO Quattro 2000 you get up to 30 fps and DI resolution at a maximum encode rate of 20 Mbps per encoder/decoder making it practical for multiple stream display applications.

Ease of Management

Management and configuration is available via Web browser and SNMP.

Key Features

- H.264, MPEG-2 and MPEG-4 standard definition Video and both AAC and MPEG-I Layer 2 audio encoding
- CAVLC, Quarter Pel ME
- Interlaced or progressive encoding
- STANAG 4609 Compliant
- Synchronous Metadata support
- 10/100/1000BaseT Internet LAN compatibility
- Supports Auto MDI/MDIX
- Two Control Methods: web browser and SNMP
- Multicasting and Unicasting

Specifications

Video

Format: NTSC color, B/W, 30 fps (29.97),
EIA-170/RS170A
PAL color, B/W, 25 fps,
CCIR 624
4:2:2; Interlaced

Input/Output Level: 1.0Vp-p nominal @75V

Encoding: MPEG-2 Compliant with ISO/IEC
13818-1, 2, 3 MP@ML
MPEG-4 Compliant with ISO/IEC
14496
H.264 compliant Main Profile ISO/IEC
14496-10

H.264: Quarter Pel Motion Estimator
Deblocking filter
Intra Prediction; CAVLC

Resolution:

NTSC: 720 x 480 DI, 640 x 480 VGA,
704 x 480 4CIF, 352 x 480, 1/2 DI,
352 x 240 CIF

PAL: 720 x 576 DI, 640 x 480 VGA,
704 x 576 4CIF, 352 x 576, 1/2 DI,
352 x 288 CIF

Frame Rate:

NTSC: 1, 5, 10, 15, 20, 25, 30

PAL: 1, 5, 10, 15, 20, 25

GOP Structure: I, IP

Encode Rate:
MPEG-2: 1.5 Mbps to 8 Mbps
MPEG-4/H.264: 512 Kbps to 5 Mbps

Rate Control: Constant

Stream Type: Elementary and Transport

Audio
Audio: ACC-LC or MPEG-I Layer 2
Stereo or Mono

Network
Protocols: RTSP, UDP, TCP/IP, HTTP, IGMP V1/V2,
ICMP, ARP, DHCP, TFTP, SNMP v1

IP Packets: Unicast and Multicast (IGMP V2)

File transfer: New firmware upgrade via TFTP.

Serial Port Specifications

- One RS-232/422 asynchronous port
- Standard data rates from 110 Bps to 115200 Bps
- Stop bits 1 and 2 bits; Data bits 6, 7, 8; Parity: none, even, odd
- Web-based management

Other Functions: IP socket to Encoder serial port
Web-based management

LED: Power, heartbeat, status, ComTX,
ComRX, No video

Reset: Reset switch

Connectors

Video: Four BNC - Composite video

Ethernet: One RJ-45

Audio: 4 each stereo mini Jacks for
audio in and audio out

COM or Craft Port: Four DB-9 (F)

Physical

Enclosure: Heat dissipates through the enclosure
without fan

Dimension: 19" W x 1.75" H x 12" D

Weight: 3.18 Kg/7 lbs.

Electrical

Power: 110 VAC - 220 VAC, 50/60 Hz, power
on/off switch

Environmental

Operating: 0° C to +50° C

Storage: -30° C to +90° C

Humidity: 10% - 95% non-condensing

Standards

STANAG 4609 compliant